Estática.

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Nombre del tema: Estática.

Parcial: Unida 3

Nombre de la Materia: estática para la arquitectura

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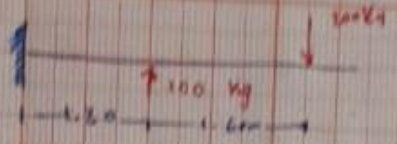
Nombre de la Licenciatura: Arquitectura.

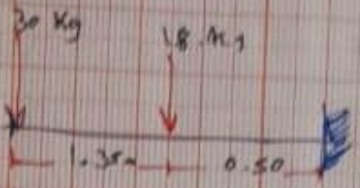
Cuatrimestre: Numero 3



$30 \times 100 = 120\ kg \cdot m$

$120\ kgm - 48\ kg \cdot m = 0$

$MA = 72\ kgm$

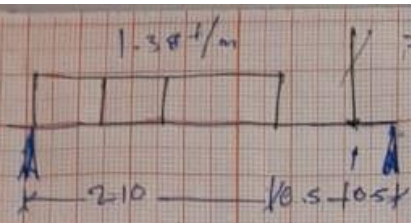


$MA = (-1.8\ kg \cdot 50\ m) + (30\ kg \cdot 135\ m)$

$MA\ (-1\ kg \cdot m) + (55.5\ kg \cdot m)$

$MA = 64.5\ kg - 0$

$MA = 64.5\ kg.$



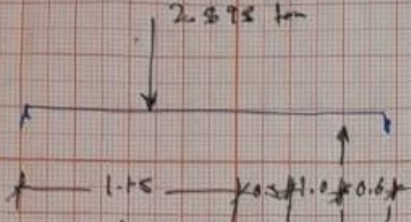
$P = w \cdot L$

$UP = L/2$

$P = 1.38 \times 2.10m$

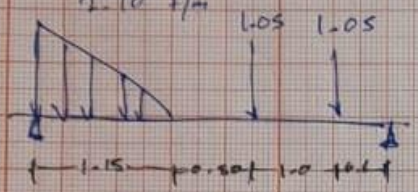
$P = 2.898$ ton·m

$UP = 2.10/2 = 1.05$ ton



$MA = (2.898 \times 1.05) + (0.75 \times 2.6)$

$3.042 - 1.95 = 1.092$ ton.



$P = w \cdot L/2$

$P = \frac{2.10 \text{ ton} \cdot 1.15}{2}$

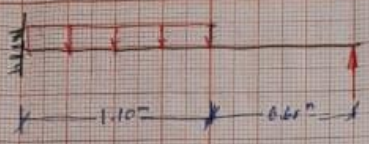
$P = 2.41/2$

$MA = (1.207 + 0.383) - (1.05 \times 1.75) - (1.05 \times 2.75)$

$-0.462 + 1.837 - 2.887$

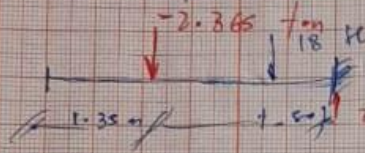
$MA = \underline{-3.786 \text{ t.m}}$

Plataforma.



$P = W.L \longrightarrow 2.13 \text{ ton} \cdot 1.10 \text{ m} = 2.365 \text{ ton/m}$

UP $L/2 \longrightarrow 1.10 \text{ m}/2 = 0.55$

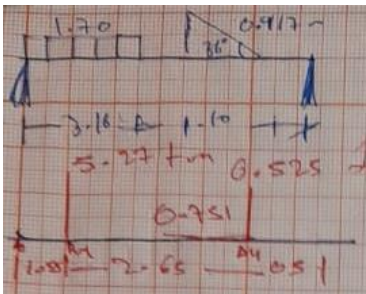


$MA = (-1.8 \text{ kg} + 50 \text{ m}) + (30 \text{ kg} \cdot 1.35)$

$MA = (-9 \text{ kg.m}) + (55.3 \text{ kg.m})$

$MA = 64.85 \text{ kg.m} = 0$

$MA = 64.3.967$



Plataforma

P = w.L (1.70 t/m)(3.10 m)
P = 5.27 ton
UP = 1.55 m

2(Sen 35° (0.917 ton = 0.525
(Cos 35°(0.917 ton) = 0.751

$\Sigma F_x = 0$
0.751 ton $B_x + 0 = 0$
$B_x = 0.751$ ton

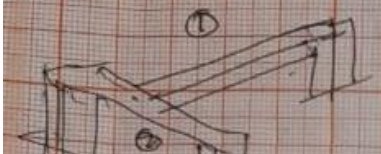
$\Sigma F_y = 0$
$A_y = 5.27$ ton $- 0.525$ ton $+ B_y = 0$
$A_y = 5.725$ ton $+ B_y = 0$
$A_y + B_y = 5.725$ ton

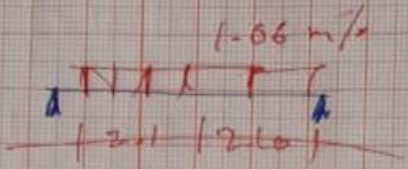
$B_y = 0.951$ ton
$A_y = 3.587$ ton
$B_y = 2.208$ ton

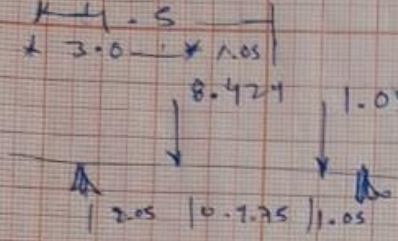
Σm_B / ton

-0.525 ton (0.5m) $- 5.27$ ton (3.15 m) $+ A_y$ (4.7 m) $= 0$
$-0.2625 - 16.0051 + A_y \times 4.7 = 0$
-16.863 ton $+ A_y \times 4.7m = 0$
$A_y = 3.587$ ton

$B_y = 5.795$ ton $- A_y$
$B_y = 5.795$ ton $- 3.587$ ton
$B_y = 2.208$ ton







$(8.9.24 \times 2.025) + (1.05 \times 3) + (RB * 4.5)$

$-17.0586 + 3.15 + RB \cdot 4.05$

$RB \quad \frac{20.2086}{2}$

$RB = 4.989$ ton m/

$RA \quad 8.424 - 1.05 + 4.989 = -4.485$ t/m

RA. 4.485 ton